

For Research Use Only

# TACSTD2/TROP2 Polyclonal antibody

Catalog Number: 27360-1-AP

2 Publications



## Basic Information

<b>Catalog Number:</b> 27360-1-AP	<b>GenBank Accession Number:</b> BC009409	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 750 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 4070	<b>Recommended Dilutions:</b> WB 1:500-1:2400 IHC 1:50-1:500 IF/ICC 1:200-1:800
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P09758	
<b>Isotype:</b> IgG	<b>Full Name:</b> tumor-associated calcium signal transducer 2	
<b>Immunogen Catalog Number:</b> AG25769	<b>Calculated MW:</b> 36 kDa	
	<b>Observed MW:</b> 45-55 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF/ICC, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> WB, IF	<b>WB :</b> HaCaT cells,
<b>Species Specificity:</b> human	<b>IHC :</b> human breast cancer tissue, human prostate cancer tissue
<b>Cited Species:</b> human	<b>IF/ICC :</b> HaCaT cells,
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

Trophoblast cell surface antigen 2 (TROP2), also named as TACSTD2, is a transmembrane glycoprotein. TROP2 plays a role in transducing intracellular calcium signals. It is expressed in trophoblast cells, cornea and multi-stratified epithelia. TROP2 is overexpressed in most carcinomas and is involved in cancer proliferation, migration, invasion, and metastasis. Congenital mutations of TROP2 cause a rare autosomal recessive disease which may lead to blindness-the gelatinous drop-like corneal disease (PMID: 35688908).

## Notable Publications

Author	Pubmed ID	Journal	Application
Nadja Schöne	38453684	J Extracell Vesicles	WB
Wenjuan Tang	37271476	J Adv Res	WB,IF

## Storage

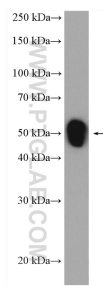
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

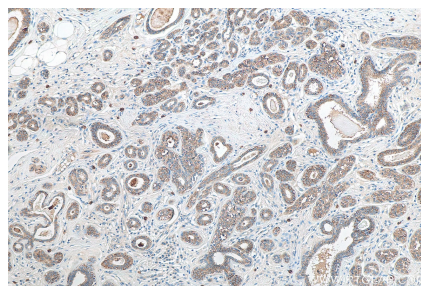
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

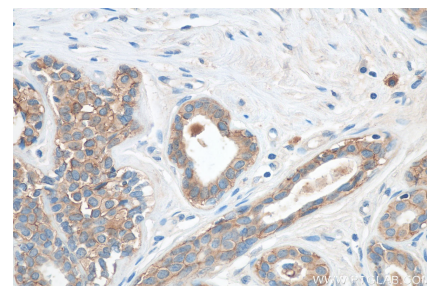
## Selected Validation Data



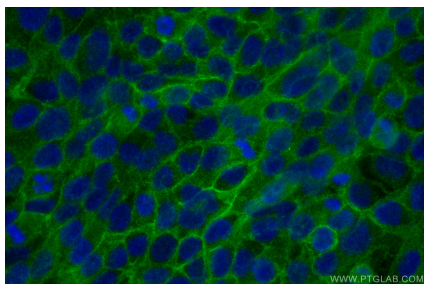
HaCaT cells were subjected to SDS PAGE followed by western blot with 27360-1-AP (TACSTD2 antibody) at dilution of 1:1200 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 27360-1-AP (TACSTD2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 27360-1-AP (TACSTD2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed HaCaT cells using TACSTD2/TROP2 antibody (27360-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).